

2817-102seqlist.txt

SEQUENCE LISTING

<110> ROBERTSON, Harold
DENOVA-WRIGHT, Eileen
NOVANEURON, INC.

<120> GENE NECESSARY FOR STRIATAL FUNCTION,
USES THEREOF, AND
COMPOUNDS FOR MODULATING SAME

<130> 2817/102

<140> NA

<141> 2003-09-10

<150> 09/680,208

<151> 2000-10-06

<150> 60/217,765

<151> 2000-07-12

<150> 60/158,043

<151> 1999-10-07

<160> 12

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 3236

<212> DNA

<213> mouse

<400> 1

```
cactgaagct ggtccacgtc tataaacagg tgacactggc tgcagcaaaa agccattcga 60
tccacacaaa ttgatcttct atcatcttgg aatctgaatt gcagggagga gcagtatgta 120
agacgaccgt ttaattcagg cattccgaag gcatgagcgc atggattctg tcaccaagcg 180
tataaaagga ccctggcatt gggaaaccta tgacggactg tttttgctgt agaagtaggg 240
attttacaga agtctccttg aatttgccct gcctggggca gttttgcaga ggaacctgcc 300
agagatttat tggctgggtc gtctcttgg aaatagtatc atgtgagaaa cagtttgtag 360
aaaaaaacta tacctgggaa gacctttgca acattgttcc ttccatgggc caagactcag 420
ttagggaggca taaatctgcc cggaataaac taggccagga tacagccatg tttagttaat 480
aatttgggtt tagaattcac acaggcagga ttgggttttt tgtgtcttgg caagtggagc 540
atatttaaca tacaggcatg ggaatcctgc ctcttagctt ttcccaccct cttgtctcac 600
caagtttttt ctctccaaag gtttccagga atttctcatt aatggctgat gcaaacttag 660
tgaataataa tgaatataaa caatgctcac ctacacaaaa ttatattatt tgcagtcatt 720
tgtgataaca caaattttat cgcaatgggt attatttaatt ttgtggccac aactgtgggt 780
tatcttttgt tgtggttggt tctgagaaaa tgttcttggg tatgtaagt ccaataccag 840
tgtgaagtat tgatcccggg cagcaaaata cagcctaagg tttgtaaaca tcaattctat 900
ctcagttcat cagagggcct gagaagctgc ggggcagtgt aaagtaaagt atgctgggct 960
ggtggttggt agcctccgc ctgaagagt accagtgtg gcccgacgga tcgctgagat 1020
attctcccat aatggcaaaa aaataggcag tttgatgtga cctgtttagt gtggctctcc 1080
tcttttgagc atgtgttagc atttttattt tatactcatc cagtgaactc tgctcttcca 1140
agtgtgttca tgtatgtgct agatatatta gcacagcctg ctttctgctg cacaacgcct 1200
tagagaccgg gcctttcaat gagcttagct tgtgctctgt ttctgctctc ttaggtctaa 1260
actatggtgt cagttttaat agaacaaaag tatgcatctt gccttggctt gagccttttc 1320
gttttcaatg ctgacttctc ccctttctct ctgtgttcca ccttaccttt ccagagtgtg 1380
agggacaact tttaaggagg cgtgtccctg gtaggggcat ccctgttcac caggtgcctg 1440
tcatcaccac acttgactga catctaccct ggtgactatg ggttcctctt gttttagggg 1500
aacgggtggc ccagggtggg gcatcaatct gttgggttct ggttcccggc tgcctttggt 1560
tttgaaagtc tcttctctgt atattcctac cctgcatttg ctttgtgtgg tgctgatgct 1620
gtgcgcagta ggattcttgg atgactctcc atcagtcaca gactccccct gttgcaaagt 1680
```

2817-102seq1ist.txt

gtcaggctga	ctcgacagtc	accgtaaaat	ctgagtcagt	cacacacagg	ctgtcagcca	1740
cggcttccac	ttgcatggct	attctatttt	cacacgtgag	tttctgttgc	tggctggctg	1800
actggcatta	tctatgctaa	gttgaaatca	ggagtgccca	gcagagccca	tcattctcac	1860
tgcttttgaa	acaaagctgt	acggtttgat	cgatgaacgt	atttaaagca	tttcatgcaa	1920
tgacaaagtg	ctcagtagtg	gaaggcaggc	tgtgaccagt	ctgcctgctc	cttactataa	1980
ttgtgaggat	ttgttactgg	aacagtacat	ggaggcctga	ccttgtgggg	gcacaggggtg	2040
gaaccttagc	tgaatatagt	gtgtgtctca	agaggaagtc	aggggtactag	ctcagtgctc	2100
aatctccagg	tactatatat	acatttgccc	gttttatctc	taatgtgaaa	taaatcccca	2160
aacacttggt	tatcgtgtag	cgtacctaaa	agactattct	attatgggtg	tccccacttt	2220
cttggtttgg	tcaccccgat	cccccggtct	tctgctgtat	ctagaacagt	gactataaat	2280
gatgtatggg	aatagtgttt	ccatagtatc	tgttgtctgg	agtatatgct	acatgttcaa	2340
ttactgtaca	aaaacccagt	gcagctgatg	atgcaaagca	gtctctctct	gtgtacagtg	2400
ccccacctat	ttaaaaatca	cgtacaascc	cagaacactg	tgaaacactt	aacataagaa	2460
caaacgcagc	gtctggattc	ttccaagga	gagcagcttt	ctccacagga	acacagtaac	2520
aaaagagggtc	cgccgcatc	cacaccagc	caagacacct	cagaggccat	agggacaacc	2580
tccttgctgg	ccaacacctg	ctggagcagg	ggcacagggtc	ccagcaactg	atcctcagtg	2640
gatgggtccg	cagtcaaagc	cttaatgggc	tctcttttga	aggggaaaga	aagaatttca	2700
agcttatgat	atccaacatt	attatagtgt	atgagttagt	aaattccaaa	aaaaaaagat	2760
gattttatat	gtatgacata	aaaaaaatct	ttgtaaagtg	cgcaagtgca	ataatttaaa	2820
gagggtcttat	ctttgcattt	ataaattata	aatattgtac	atgtgtgtaa	tttttcagt	2880
attcatttgc	agtctttgta	tttaaaaaaa	ctttactgtt	atgtttgtat	aatagaacat	2940
taatcattta	ttataactca	gacaagggtg	aaataaaattc	ataattcaaa	cagccagtat	3000
atatgcatat	atgggtgtta	cattgcaaaa	atctctatct	ttgttctatt	cacatgctta	3060
aagaagtaag	aaatcttttg	tggatatgta	attatacata	taaagtatat	atatatgtat	3120
gatacatgaa	atatattttg	aaatgttcat	aattttaatg	gatattcttt	ggtgtgaata	3180
attgaataca	acatttttaa	aatgaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa	3236

<210> 2
 <211> 5752
 <212> DNA
 <213> mouse

<400> 2						
aagtgtaaat	aaaataaaca	tctaataaaa	aaaattacat	accatagagg	aacaagataa	60
tttctgcccc	acttcatacc	ctccagcgta	tagtggtgag	gtttgggtctg	ttgctgtgta	120
ttgtaatgta	atgttaaatt	ctctacctga	agggtctaggc	ctacaagtga	attctcatgt	180
ttatagagtt	ttgtttgtgca	aaccttggtc	cttaatttaa	aactatgggt	aaaaaacaaa	240
acaaaactgg	ctacagccaa	taactgaagg	gggttacctt	gttgaagggg	tggaaaagag	300
agaggaggaa	gaaggagggt	caagagaagg	agaagaacaa	gaggagagga	ggaagctgcc	360
acgaggggag	atggggccatg	agaacttggc	caggagaaat	agccagtatc	tggagtacac	420
cactgaggag	gtagccaggc	tagcagttag	aagagtagat	taggggttat	ttttcccca	480
ctccacatag	ttatcaaagc	caaataaaa	aaccatagtc	tgagtctcat	ctatttgtaa	540
gctagtggg	tataagatta	atttggctgt	actacagttt	agatttctaa	cataggaact	600
atcaaaaact	tgctcaaaca	agaacatgct	gacaatattt	taaaatgatt	atttatattg	660
tttgacattt	ctaaagtttc	ttctaattgt	tccatgggtca	aattaaaaaa	tatacatatt	720
ggctattaaa	ttcgtctaag	tggggctgga	gagatagctc	agagggttaag	agcactgact	780
gctcttccag	aggtcctgag	ttcaattccc	agcgaccaca	tgggtggctca	cagccatctg	840
taatagatag	gatctgacgc	cctcttctgg	agtgtctgaa	gacagctaca	atgtactcat	900
atatattaaa	taaataatat	tagaaaattc	ttctaagtgt	atcattttata	gaatatttaa	960
tatataaagt	aaatgcctca	ggaaatataa	acttgggaatt	aaatcaaaga	acttcatgag	1020
tagtggggca	caaaaaatgt	gtaccagggg	aagaccggag	ggaggggaga	aggaagggat	1080
ggagatagaa	ttttgcctct	gcatttcctg	ggctggcaca	ggtataatgc	tgtgggaatt	1140
gggaaactac	aagggaagctg	caaagctggg	cggaactcgt	ttccgcaagc	tgggctcatc	1200
taagtgtcca	tgcatggctg	ccacactgca	gtgaacttta	aaacatttgt	gttccagaga	1260
tgtagagatg	ctcacaatag	tacaaaggcg	ggagggagggt	atttccagac	taagagggaag	1320
aaaaaccatt	gctgattaaa	catctgcata	tgagcgcccc	cacctccata	cacacacaca	1380
cacacacaca	cacacacaca	caaccaacaa	gaacaaatac	acatgcatgt	ctacagcctg	1440
caggaacaaa	atgggtatgtc	tgtgaggaac	caggagatgc	acagggtccta	acctctgtct	1500
cctacaagcc	ctgaagtctg	gtcaggggtca	aatgtacaaa	agcaggctaa	ggaagctgtt	1560
tagtgaaaga	tttttttctt	caactctagg	aacaacctat	ttcctaggat	ttggagagtg	1620
ctcaggagga	aacattcaga	caactgatgc	tctctgtgta	ccccagattc	aggtattggg	1680
gtagttagtt	gtgctcatgt	atgtgctaga	tatattagca	cagcctgcct	tctgtgcac	1740
aacgccttag	agacccggcc	tttcaatgag	cttagcttgt	gctctgtttc	tgctctctta	1800

2817-102seq1ist.txt

```

ggctctaaact atggtgtcag ttttaataga acaaaagtat gcatcttgcc ttggcttgag 1860
ccttttcgtt ttcaatgctg acttctcccc tttctctcct gtgctcacct tacctttcca 1920
gagtgtaaag gacaactttt aaggaggcgt gtccctggta ggggcatccc tggtcaccag 1980
gtgacctgtca tcacccactt tgactgacat ctacccctgg gactatgggt tcctcttggt 2040
tgtagggaac ggtggctcca ggtggaggca tcaatctggt gggttctggg tcccggctgc 2100
ctttggtttt gaaagtctct tctctgtata ttctaccct gcatttgctt tgtgtggtgc 2160
tgatgctgtg cgcagcagga ttcttggtat actctccatc agtcacagac tccccctgtt 2220
gcaaagtgtc aggtgactc gacagtcacc gtaaaatctg agtcagtcac acacaggctg 2280
tcagccacgg ctccacttg catggctatt ctattttcac acgtgagttt ctggtgctgg 2340
ctggctgact ggcattatct atgctaagtt gaaatcaggg gtgcccagca gagcccatca 2400
ttctcactgt ctttgaaaca aagctgtacg gtttgatcga tgaacgtatt taaagcattt 2460
catgcaatga caaagtgtc agtagtgga ggcaggctgt gaccagtctg cctgctcctt 2520
actataattg tgaggatttg ttactggaac agtacatgga ggcctgacct tgtgggggca 2580
cagggtgga ccttagctga atatagtgtg tgtctcaaga ggaagtcagg gtactagctc 2640
agtgtcaat ctccagggtac tatatatata ttgtcccggt ttatctctaa tgtgaaataa 2700
atcccaaac acttgtttat cgtgtagcgt acctaaaaga ctattctatt atgggtgtcc 2760
ccactttctt ggtttgggtca ccccgatccc ccggtcttct gctgtatcta gaacagtgc 2820
tataaatgat gtatgggaat agtgtttcca tatgatctgt tgtctggagt atatgctaca 2880
tgttcattta ctgtacaaaa acccagtgc gctgatgatg caaagcagtc tctctctgtg 2940
tacagtgcctt cactatttta aaaatcacgt atatggccag aacactgtga aacacttaac 3000
ataagaacaa acgcagcgtc tggattcttt ccaaggagag cagctttctc cacaggaaca 3060
cagtaacaaa agaggtccgc cgccatccac acccagcaa gacacctcag aggccatagg 3120
gacaacctcc ttgctggcca acacctgctg gagcaggggc acaggtccca gcaactgac 3180
ctcagtggtt gggctctgcag ccaaagcctt aatgggctct cttttgaagg ggaagaaaag 3240
aatttcaagc ttatgatatt caatattatt atagtgtatg agttagtaaa ttccaaaaaa 3300
aaaagatgat ttatatgta tgacataaaa aaaatctttg taaagtgcgc aagtgaata 3360
atttaaagag gtcttatctt tgcatttata aattataaat attgtacatg tgtgtaattt 3420
ttcatgtatt catttgagct ctttgtattt aaaaaaactt tactgttatg tttgtataat 3480
agaacattaa tcatttatta taactcagac aagggtgtaa taaattcata attcaaacag 3540
ccagtatata tgcataatag ggtgttacat tgcaaaaatc tctatctttg ttctattcac 3600
atgcttaaaag aagtaagaaa tcttttgggt atatgttaatt atacatataa agtatatata 3660
tatgtatgat acatgaaata tttttagaaa tgttcataat tttaatggat attctttggg 3720
gtgaataatt gaatacaaca tttttaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3780
aaaatttttt tttttttttt ttattccaga gattaaagac actagatctt taaccttgaa 3840
gggcaggcaa gaggtcggca atgctgtcaa catagaagtc agggaccatt ttcttcttga 3900
acatgcagtc actttcctga ttgctcttca catctcgaag gctccggaat tccgggggtg 3960
tgggtgggctt tgatctcagg actctggagg cagaagcagg cagatctctg tgaatatgag 4020
gccagcctgc actacacaga gctccagacc agtcatggct acatcatgaa accctgtctc 4080
aaaaagaaaa taaaaactgt tgtgtttcta ccatagtgtt aaactcagag tctgagtaat 4140
gtcgggctga catgctcggg tgtttaacat acctcagct ttgacgaggc gctgaacagt 4200
caaagtctgg ccttggggag cgggtggctgt gtttgtgctc aagtccaccg tgaaatcctg 4260
attgtgaatt tggacaaccg ttgccttctt cttggccttc catgcaacct ccaacttcat 4320
gttggctcatt ttgtcaaaac actgtgtgat gtttttatca atatactgcc attccacata 4380
tgtagagatg tagtctgcct ggctttcctt ttctttagcc aatcgaatgc tcttgatcat 4440
gcccctaact tcactcttag cttttatcac gtctctgcta attcctgaaa cttgaatcga 4500
agttttcttc tggttcatct caatgggtat gttcagttcc ttctgaatct cattcagttt 4560
ctcgtactcc tccatgtcaa agtcactgac acactcatcg tcattgggtg aggaaagctg 4620
ctctttggta atcagttcct ttagccagga gattgttttg ttcacactgt ctacccttga 4680
accacatacc tggaaaactg tgtgctctat tttcttttcc aaaaccaggg tgttcttttt 4740
gggggaagct tgcttgggaa agccaagaaa ggctaaagag aaaatggaaa ttaatgtttc 4800
ttttactccc ttcaacatca aggttaggaa tatgtatttc ataaaagcta acaactcaca 4860
ggcaatctta gacatcactg actgcttggc aggcgactgc ttggggggag ctggagagcc 4920
ttctctttct ttcatgttgt cgtaaaaaaa ttgcagaata tggggctgga agataacaac 4980
tttaactctc ttcacagcct gcactgattt tttctggaca aattcttcaa tggcatctat 5040
tatcgctttt gctactacgt ttgggtcctg ttgagcattt ccttcaaaaa caaaaaaagc 5100
acatttttaa aaagtcaagg ttaagatcca cctgcaaaaa aaagctgcaa tataagcga 5160
gaattctagt tgtcacagga aataaaaaatg tctgttccca ctataatcaa tgtagactga 5220
taatattatg ccagcaataa tttttgaagt cctaggcaca gtgggaggag gttttgttcc 5280
acgtgttca taagccaata cccagcaaaa agaccttaaa ggacaacttg taatttggga 5340
cattcacatc tgtcctcttc atctgatctg gctcccagtg tcaactctta acacggtcct 5400
tagagggaca atttatccct gcctctgctt gatcttatgc atgtatctgt attcttccag 5460
ccatccctgg cgacctgatt tttctaaggc acccaaaact gtaagctact tcttataatc 5520
tataattctg agcatattag ttagcctgag cctccaggat atctttcttc cctatactca 5580

```

2817-102seq1ist.txt

gtccagtttt agctgcccag aaggattcaa agctgatcta cgagtagatc actcctgtct 5640
 acagcttggt ccagatcttg tttctcaagc cctggaagcc atcagccagg taagattgta 5700
 aaacaatccc tttctaata tgggtgtggc ccaaagtga tggccggaat tc 5752

<210> 3
 <211> 475
 <212> DNA
 <213> mouse

<400> 3
 tgtatgggaa tagtgtttcc atatgatctg ttgtctggag tatatgctac atgttcattt 60
 actgtacaaa aaccagtg c agctgatgat gcaaagcagt ctctctctgt gtacagtgcc 120
 ccacctattt aaaaatcacg tacttgccca gaacactgtg aaacacttaa cataagaaca 180
 aacgcagcgt ctggattctt tccaaggaga gcagctttct ccacaggaac acagtaacaa 240
 aagagggtccg ccgccatcca caccagcca agacacctca gaggccatag ggacaacctc 300
 ctgtctggcc aacacctgct ggagcagggg cacaggtccc agcaactgat cctcagtgga 360
 tgggtctgca gccaaagcct taatgggctc tcttttgaag gggaaagaaa gaatttcaag 420
 cttatgatata ccaatattat tatagttgat gagttagtaa attccaaaaa aaaaa 475

<210> 4
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 4
 agggctgtca atcatgctgg 20

<210> 5
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 5
 aaactcacgg tcggtgcagc 20

<210> 6
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> probe

<400> 6
 attaaccctc actaaatgct gtat 24

<210> 7
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> probe

<400> 7

cattatgctg agtgatatct ttttttttcg 30

<210> 8
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> probe

<400> 8
 gaacatgtag catatactcc agacaacaga tcatatgg 38

<210> 9
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> probe

<400> 9
 cagcttctcc acaggaacac agtaacaaag ag 32

<210> 10
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 10
 ctatttcaca agagactgac cagccaataa atctc 35

<210> 11
 <211> 7581
 <212> DNA
 <213> unknown

<220>
 <223> cDNA

<221> unsure
 <222> 3383, 3384
 <223> a or g or c or t/u, unknown, or other

<221> unsure
 <222> 3392, 3397
 <223> a or g or c or t/u, unknown, or other

<221> unsure
 <222> 3399, 3401
 <223> a or g or c or t/u, unknown, or other

<221> unsure
 <222> 3406, 3408
 <223> a or g or c or t/u, unknown, or other

<221> unsure
 <222> 6791
 <223> a or g or c or t/u, unknown, or other

2817-102seqlist.txt

<221> unsure
<222> (7056)...(7057)
<223> a or g or c or t/u, unknown or other

<400> 11

cgccccgggca	gggtctgttgg	agggcagttg	gtcaacctga	ccagagagag	ctgagctgga	60
agacccact	gatggtgtgc	tgcctttcag	tccaggaaga	aagaaaggaa	ggattctgag	120
gatttgggca	aagccacatt	cctggagaag	tctgtatact	gatgccaaac	ccaagagctg	180
agctgctgat	gagggccagg	gagtagccca	cgcgccctga	gctgtttggct	agcaaggcct	240
tcctgctcca	tgtggcatgg	aaaaattata	tggtttgacg	gatgaaaagg	tgaaggccta	300
tctttctctc	catccccagg	tattagatga	atttgtttct	gaaagtgtta	gtgcagagac	360
tgtgaaaaag	tggctgaaga	ggaaaaccaa	caaagcaaaa	gatgaaccat	ctcccaagga	420
agtcagcagg	taccaggata	cgaatatgca	gggagtcgtg	tacgagctga	acagctacat	480
agagcagcgc	ctggacacgg	gcggggacaa	ccacctgctc	ctctatgagc	tcagcagcat	540
catcaggata	gccacaaaag	ccgacggatt	tgcactgtac	ttccttggag	agtgaataa	600
tagcctgtgt	gtgttcatac	cacccgggat	gaagggaaggc	caaccccggc	tcatccctgc	660
agggcccatc	acccagggtg	ccaccatctc	tgcctacgtg	gccaaagtcta	ggaagacggt	720
gttggtagag	gatatccttg	gggatgagcg	atttctcga	ggtactggcc	tggaatcagg	780
aacccgcatc	cagtctgttc	tttgcttgcc	cattgtcact	gccattggag	acttgattgg	840
catccttgaa	ctgtacaggg	actggggcaa	agaggccttc	tgccctcagcc	atcaggagggt	900
tgcaacagcc	aatcttgctt	gggcttccgt	agcaatacac	caggtgcagg	tgtgtagagg	960
tctcgcaaaa	cagaccgaac	tgaatgactt	cctactcgac	gtatcaaaga	catactttga	1020
taacatagtt	gccatagact	ctctacttga	acacatcatg	atatatgcaa	aaaatctagt	1080
gaacgccgag	cgctgcgcgc	tcttccaggt	ggaccacaag	aacaaggagc	tgtactcgga	1140
cctgtttgac	attggggagg	agaaggaggg	gaagcccatc	ttcaagaaga	ccaaggagat	1200
cagattttcc	attgagaaag	ggattgctgg	tcaagtggca	agaacaggcg	aagtcttgaa	1260
cattcccgat	gcctacgcgg	accctcgctt	taacaggggag	gtggacctgt	acacaggcta	1320
caccacgagg	aacattctgt	gtatgcccat	agtgaagccga	ggcagcgtga	ttggcgtgggt	1380
gcagatgggtg	aacaagatca	gcggtagcgc	cttctccaag	acagacgaga	acaacttcaa	1440
gatgtttgat	gtcttctgag	cactggcctt	gcactgtgct	aacatgtacc	acaggatccg	1500
ccactcgaaa	tgcattctaca	gggttaccat	ggagaagctt	tcctaccaca	gcattctgcac	1560
ctccgaggag	tggcaaggcc	tcattgcgctt	caacctacca	gcacgcattc	gccgggacat	1620
cgagctattc	cactttgaca	ttggtccttt	cgagaacatg	tggcctggga	tctttgtcta	1680
catgatccat	cggctcttgtg	ggacatcctg	tttgaactt	gaaaaattgt	gccgttttat	1740
catgtctgtg	aagaagaact	atcggcgggt	tccttaccac	aactggaagc	atgcagtcac	1800
ggtggccacac	tgcattgtatg	ccatacttca	aaacaacaat	ggcctcttca	cagacctcga	1860
gcgcaaaggc	ctgctaattg	cgtgtctgtg	ccatgacctg	gaccacaggg	gcttcagtaa	1920
cagctacctg	cagaagttcg	accaccccct	ggcggcgctg	tactccacct	ccaccatgga	1980
gcaaacaccac	ttctcccaga	cgggtgtccat	ccttcagctg	gaagggcaca	atatcttctc	2040
caccctgagc	tccagcgagt	acgagcaggt	gctggagatc	atccgcaaag	ccatcatcgc	2100
caccgacctc	gccctatact	ttgggaacag	gaagcagttg	gaggagatgt	accagacagg	2160
gtcgtgaac	ctccacaacc	agtcccacg	agaccgtgtc	atcggcttga	tgatgactgc	2220
ctgtgatctt	tgtctgtga	ccaaactatg	gccagttaca	aaattgacag	cgaatgatat	2280
atatgcagaa	ttctgggctg	aggggtgatga	gatgaagaag	ctgggcatac	agcccatctc	2340
tatgatggac	agagacaagc	gagatgaagt	ccctcaaggg	cagctcggat	tctacaatgc	2400
tgtggccatt	ccctgctata	ccaccttgac	gcagatcctc	ccaccacag	agcctctgct	2460
gaaggccctgc	agggataacc	tcaatcagtg	ggagaaggta	attcgcgggg	aagagacagc	2520
aatgtggatt	tcaggcccgag	gccccgcgc	tagcaagagc	acacctgaga	agctgaacgt	2580
gaaggttgaa	gactgatcct	gaagtgacgt	cctgatgtct	gcccagcaac	cgactcaacc	2640
tgccttctgtg	acttcgtttc	ttttgttttc	aaggggtgaa	aacccctgt	cagaaggtag	2700
cgtcgcatat	ccatgtgaag	cagacgactc	cctgcttgcc	gcacacacct	cggacagtga	2760
gcaaccacagg	ctctgcgctg	ttcagacgtc	ggctactccg	tggctccacc	tgacctccga	2820
atgctatttg	ctcccaggcc	agcactgcac	tgtctggagg	gggcagagac	cacaggagag	2880
gttcttgctt	gcatcctccc	atgagggtgt	ggccagttcc	ctagttctgt	gccatgctgc	2940
tgccttgggtg	catttggttag	gaatgggaca	cacgcccctt	gttggtgaagt	ttacatgtga	3000
ccttcttata	ggttaactga	gtttgtggcc	tggacacatg	taatgaagg	cacagtcacc	3060
aggtgacaga	gaaatccaaa	ctgttgatta	caggtgacct	acaggtatgc	tctttcagtc	3120
tatctggggg	cacataggtg	agtctgtctc	actcagaann	aagcatacct	ctgccctcat	3180
ccaggggaca	cagggtacat	cccaggcatc	ggggaactga	agctctcact	tcaaaccatg	3240
tcaaagaatt	aaaacacctc	ccctccccct	cactgtagcc	ttcgacaact	gcgccaatcc	3300
ctttatacaa	agaaaataaa	agtaaggcat	ataaatttcc	tccagcaagc	aaatcttgtg	3360
ggtaaaaaaa	aagcatgtga	atnntaaca	cntctanant	ntcncngnat	gttatggcag	3420
aatttttagtc	acgtccaaaa	caaaaagatt	attccagaag	atacctcatc	ctatgcctga	3480

2817-102seq1ist.txt

aaggctccac	agcatggcgt	ccgtctccca	gggttctgat	ccgtctcctc	acgggtgcaat	3540
caggcaggac	agagaggagg	gctgcagggc	taccacattg	acccagaagg	tatctcctct	3600
caccattcag	acatccataa	ggaatgccaa	atgctgtatt	gaatagttct	ctgtgtgact	3660
ttctagagaa	gccaggacac	cttgagcctt	tccnggggaa	ctctaaggag	tcacaggttc	3720
acaccgtggg	gattttcagg	atagcatgga	gacagagatc	cggctcgttg	tctcactcgt	3780
gagccttgag	aaggagagac	tgaccagaaa	cactcactca	gcactctgca	ggagcaggag	3840
aagatacttt	aagatgaatc	ttggatagat	tttgatacac	ccaataccat	acacacagga	3900
gcttggcatt	tgcaaagtct	attcagtttc	cttccgcgct	ctgaccacag	gttgtagcgg	3960
agtgggctga	acactgtaac	actgtacatg	cgtattcccc	atgggcttct	aaaatgtcac	4020
catctcctcc	cctgctgtgt	cctactccat	ttactgggta	caagggtgat	tcaacaagag	4080
aagctatcac	aacaccaggg	ctgtgcacac	gtgcacacac	atgtatgcac	aagcacacag	4140
atgtatgtac	agcacacaca	cacacacaca	ccccaaaagg	agagaaaagg	aagaaaacat	4200
ttataaaaaag	cgacagctac	cccataatcaa	aatagtcttt	cctgtaggaa	acaggagctc	4260
tccataagga	gtgtgttctc	ccatcagtcg	cactggctgc	agcaaaaagc	cattcgatcc	4320
tgaagctggg	ccacrtctat	atcttgggaat	ctgaattgca	gggaggagca	gyatgtaaga	4440
acacaaattg	atcttctatc	tccgaaggca	tgagcgcgat	gattctrtca	ccaagcgtat	4500
cgaccgttta	attcaggcat	aaacctatga	cggactgttt	ttgctgtaga	agtagggatt	4560
aaaaggaccc	tgccattggg	ttgccctgcc	tggggcagtt	ttgcagagga	acctgccaga	4620
ttacagaagt	ctccttgrat	tcttgtgaaa	tagtatcatg	tgagaaacag	tttgtagaaa	4680
gatttatttg	ctggtcagtc	ctttgcaaca	ttgttccttc	catgggcca	gactcagtta	4740
aaaactatac	ctgggaagac	aataaactag	gccaggatac	agccatgttt	agttaataat	4800
ggaggcataa	atctgcccgg	ggcaggattg	gtttttttgt	gtcttggcaa	gtggagcata	4860
ttgggttttag	aattcacaca	atcctgcctc	ttagcttttc	ccaccctctt	gtctcaccaa	4920
tttaacatac	aggcatggga	tccaggaatt	tctcattaat	ggctgatgca	aacttagtga	4980
gttttttctc	tccaaaggtt	tgctcacctc	accaaaatta	tattatttgc	agtcatttgt	5040
ataataatga	atataaaca	aatggttatt	atttaatttg	tggccacaca	ctgtggttat	5100
gataacacaa	attttatcgc	gagaaaatgt	tcttgatat	gtaagtgcc	ataccagtgt	5160
cttttgttgt	ggttgtttct	caaaatacag	cctaagggtt	gtaaacaatca	attctatctc	5220
gaagtattga	tcccgggcag	aagctgcggg	gcagtgtaaa	gtaaagtatg	ctgggctggg	5280
agttcatcac	agggcctgag	caagaagaga	gcaattgaat	cctgtcccca	gctccctcca	5340
ggtggctcag	ctccccttgc	ctggcccgac	ggatcgctga	gatattctcc	cataatggca	5400
cgctgaaga	gtgaccagt	tgacctgttt	agtgtggctc	tcctcttttg	agcatgtgtt	5460
aaaaaataag	cagtttgatg	atccagtga	ctctgtctct	ccaagtgtgt	tcagtgtatg	5520
agcattttta	ttttatactc	ctgccttctg	ctgcacaacg	ccttagagac	ccggcctttc	5580
gctagatata	ttagcacagc	tgtttctgct	ctcttaggtc	taaaactatg	tgctagtttt	5640
aatgagctta	atgtgtgctc	cttgaccttg	cttgagcctt	ttcgttttca	atgctgactt	5700
aatagaacaa	aagtatgcat	tcaccttacc	tttccagagt	gtaagggaca	acttttaagg	5760
ctcccctttc	tctcctgtgc	catccctgtt	caccagggtg	ctgtcatcac	cccacttgac	5820
aggcgtgtcc	ctggtagggg	atgggttctc	cttgtttgta	gggaacggtg	gctccagggt	5880
tgacatctac	cctggtgact	tctggttccc	ggctggcctt	ggttttgaaa	gtctcttctc	5940
gaggcataca	tctgttgggt	ttgctttgtg	tggtgctgat	gctgtggcag	taggatcttg	6000
tgtatatccc	taccctgcat	agactcccc	tggtgcaaag	tgtaggctg	actcgacagt	6060
gatgactctc	catcagtcac	tcacacacag	gctgtcagcc	acggcttcca	cttgcattgg	6120
caccgtaaaa	tctgagtcag	gtttctgttg	ctggctggct	gactggcatt	atctatgcta	6180
tattctattt	tcacacgtga	ccagcagagc	ccatcattct	cactgtcttt	gaaacaaagc	6240
agttgaaatc	aggagtgtgc	cgtattttaa	gcatttcatg	caatgacaaa	gtgctcagta	6300
tgtacgggtt	gatcgatgaa	agtctgcctg	ctccttacta	taattgtgag	gatttgttac	6360
gtggaaggca	ggctgtgacc	tgacctgtgt	ggggcacagg	gtggaacctt	agctgaatat	6420
tggaaacagta	catggaggcc	gtcaggggtac	tagctcagtg	ctcaatctcc	aggtactata	6480
agtgtgtgtc	tcaagaggaa	ctctaattgt	aaataaaatc	ccaaacactt	gtttatcgtg	6540
tatacatttg	cccgttttat	tctattatgg	gtgtccccc	tttcttggtt	tggtcacccc	6600
tagcgtacct	aaaagactat	tatctagaac	agtgactata	aatgatgtat	gggaatagt	6660
gatcccccg	tcttctgctg	tggagtatat	gctacatgtt	catttactgt	acaaaaacc	6720
tttccataatg	atctgttgtc	gcagtctctc	tctgtgtaca	gtgccccacc	tatttaaaaa	6780
agtgcagctg	atgatgcaaa	ctgtgaaaca	cttaacataa	gaaacaaacg	cagcgtctg	6840
tcacgtacaa	nccagaacac	ctttctccac	aggaacacag	taacaaaaga	ggtccgccc	6900
attctttcca	aggagagcag	acctcagagg	ctatagggg	aacctccttg	ctggccaaca	6960
catccacacc	cagccaagac	gtcccagcaa	ctgatcctca	gtggatgggt	ccgcagtcaa	7020
cctgctggag	cagggcacag	tgaaggggaa	agaaannttt	caagcttatg	atatccaaca	7080
agccttaaatg	ggctctcttt	gtaaattccg	aaaaaaaag	atgattttat	atgtatgaca	7140
ttattatagt	tgatgagtta	tgcgcaagt	caataattta	aagaggctct	atctttgcat	7200
taaaaaaaat	ctttgtaaag	acatgtgtgt	aatttttcat	gtattcattt	gcagtccttg	7260
ttataaatta	taaatattgt					

2817-102seq1ist.txt

tatttataaaaa	aacttttactg	ttatgtttgt	ataatagaac	attaatcatt	tattataact	7320
cagacaaggt	gtaaataaat	tcataattca	aacagccagt	atatatgcat	atatgggtgt	7380
tacattgcaa	aaatctctat	ctttgttcta	ttcacatgct	taaagaagta	agaaatcttt	7440
tgtggatatg	taattataca	tataaagtat	atatatatgt	atgatacatg	aaatatattt	7500
agaaatgttc	ataattttta	tggatattct	ttggtgtgaa	taattgaata	caacattttt	7560
aaaatgaaaa	aaaaaaaaaa	c				7581

<210> 12
 <211> 7618
 <212> DNA
 <213> mouse

<220>
 <221> unsure
 <222> (7075)...(7076)
 <223> a or g or c or t/u, unknown or other

<400> 12	cgccccgggca	ggtctgtttg	agggcagttg	gtcaacctga	ccagagagag	ctgagctgga	60
	agacccact	gatggtgtgc	tgcctttcag	tccaggaaga	aagaaaggaa	ggattctgag	120
	gatttgggca	aagccacatt	cctggagaag	tctgtatact	gatgccaaac	ccaagagctg	180
	agctgctgat	gaggcccagg	gagtagccca	cgcgccctga	gctgtttggc	agcaaggcct	240
	tcctgtctca	tgtggcatgg	aaaaattata	tggtttgacg	gatgaaaagg	tgaaggccta	300
	tctttctctc	catccccagg	tattagatga	atttgtttct	gaaagtgtta	gtgcagagac	360
	tgtggaaaag	tggctgaaga	ggaaaaccaa	caaagcaaaa	gatgaaccat	ctcccaagga	420
	agtcagcagg	taccaggata	cgaatatgca	gggagtcgtg	tacgagctga	acagctacat	480
	agagcagcgc	ctggacacgg	gcggggacaa	ccacctgctc	ctctatgagc	tcagcagcat	540
	catcaggata	gccacaaaag	ccgacggatt	tgactgtac	ttccttggag	agtgaataa	600
	tagcctgtgt	gtgttcatac	cacccgggat	gaaggaaagg	caaccccggc	tcatccctgc	660
	agggcccatc	acccagggtg	ccaccatctc	tgcctacgtg	gccaagtcta	ggaagacgtt	720
	gttggtagag	gatatccttg	gggatgagcg	atttctcga	ggtactggcc	tggaatcagg	780
	aaccgcgcatc	cagtctgttc	tttgcttgcc	cattgtcact	gccattggag	acttgattgg	840
	catccttgaa	ctgtacaggc	actggggcaa	agaggccttc	tgccctcagc	atcaggaggt	900
	tgcaacagcc	aatcttgctt	gggcttccgt	agcaatacac	cagggtgcagg	tgtgtagagg	960
	tctcgccaaa	cagaccgaac	tgaatgactt	cctactcgac	gtatcaaaga	catactttga	1020
	taacatagtt	gccatagact	ctctacttga	acacatcatg	atatatgcaa	aaaatctagt	1080
	gaacgcccgc	cgctgcgcgc	tcttccagg	ggaccacaag	aacaaggagc	tgtactcggg	1140
	cctgttttag	attggggagg	agaaggagg	gaagcccatc	ttcaagaaga	ccaaggagat	1200
	cagattttcc	attgagaaag	ggattgctgg	tcaagtggca	agaacaggcg	aagtcttgaa	1260
	cattcccgat	gcctacgcgg	accctcgctt	taacagggag	gtggacctgt	acacaggcta	1320
	caccacgagg	aacattctgt	gtatgcccat	agtgagccga	ggcagcgtga	ttggcggtgg	1380
	gcagatggtg	aacaagatca	gcggtagcgc	cttctccaag	acagacgaga	acaacttcaa	1440
	gatgtttgct	gtcttctgcg	cactggcctt	gcactgtgct	aacatgtacc	acaggatccg	1500
	ccactcagaa	tgcatctaca	gggttaccat	ggagaagctt	tcctaccaca	gcatctgcac	1560
	ctccgaggag	tggcaaggcc	tcatgcgctt	caacctacca	gcacgcatct	gccgggacat	1620
	cgagctattc	cactttgaca	ttggtccttt	cgagaacatg	tggcctggga	tctttgtcta	1680
	catgatccat	cggtcttgtg	ggacatcctg	ttttgaactt	gaaaaattgt	gccgttttat	1740
	catgtctgtg	aagaagaact	atcggcgggt	tccttaccac	aactggaagc	atgcagtcac	1800
	ggtggcacac	tgcatgtatg	ccatacttca	aaacaacaat	ggcctcttca	cagacctcga	1860
	gcgcaaaagg	ctgtctaattg	cgtgtctgtg	ccatgacctg	gaccacaggg	gcttcagtaa	1920
	cagctacatg	cagaagttcg	accacccctt	ggcggcgctg	tactccacct	ccaccatgga	1980
	gcaacaccac	ttctcccaga	cggtgtccat	ccttcagctg	gaagggcaca	atatcttctc	2040
	caccttgagc	tccagcgagt	acgagcaggt	gctggagatc	atccgcaaag	ccatcatcgc	2100
	caccgacctc	gccctatact	ttgggaacag	gaagcagttg	gaggagatgt	accagacagg	2160
	gtcgtgaac	tccacaaccc	agtcccatcg	agaccgtgtc	atcggcttga	tgatgactgc	2220
	ctgtgatctt	tgtctgtgta	ccaaactatg	gccagttaca	aaattgacag	cgaatgatat	2280
	atatgcagaa	ttctgggctg	agggatgatga	gatgaagaag	ctgggcatac	agcccatctc	2340
	tatgatggac	agagacaagc	gagatgaagt	ccctcaaggg	cagctcggat	tctacaatgc	2400
	tgtggccatt	ccctgctata	ccaccttgac	gcagatcctc	ccaccacag	agcctctgct	2460
	gaaggcctgc	agggataacc	tcaatcagtg	ggagaaggta	attcgcgggg	aagagacagc	2520
	aatgtggatt	tcaggcccag	gcccggcgcc	tagcaagagc	acacctgaga	agctgaacgt	2580

2817-102seq1ist.txt

gaaggttgaa	gactgatcct	gaagtgaagt	cctgatgtct	gcccagcaac	cgactcaacc	2640
tgcttctgtg	acttcgttct	ttttgttttc	aaggggtgaa	aacccccctgt	cagaaggtag	2700
cgctgcata	ccatgtgaag	cagacgactc	cctgcttgcc	gcacacacct	cggacagtga	2760
gcaacccagg	ctctgccgtg	ttcagacgtc	ggctactccg	tggctccacc	tgacctccga	2820
atgctatttg	ctcccaggcc	agcactgcac	tgcttgagg	gggcagagac	cacaggagag	2880
gttcttgcc	gcatcctccc	atgaggggtg	ggccagttcc	ctagttctgt	gccatgctgc	2940
tgcttggtgg	catttggttag	gaatgggaca	cacgccccct	gttggtgaagt	ttacatgtga	3000
ccttcttata	ggttaactga	gtttgtggcc	tgggacacat	gtaatgaagg	tcacagtcca	3060
caggtgacag	agaaatccaa	actgttgatt	acaggtgcac	tacaggtag	ctctttcagt	3120
ctatctgggg	gcacataggt	gagtctgtct	cactcagaag	gaagcatacc	tctscctca	3180
tccaggggac	acaggggtaca	tcccaggcat	cggggaactg	aagctctcac	ttcaaaccat	3240
gtcaagaat	taaaacacct	cccctcccc	tactgttagc	cttcggcaac	tgcgccaatc	3300
cctttatata	aagaaaatat	aagtaaggca	tataaatctc	ctccagcaag	caaactctgt	3360
gggtaaaaaa	aaaaaatgtg	aatttttaaca	acctctatat	tttactgta	tgttatggca	3420
gaatttttagt	cacgtccaaa	acaaaagatt	attccagaag	atacctcatc	ctatgcctga	3480
aagctccaca	gcatggcgct	cgtctcccag	ggttctgac	cgtctcctca	cggtgcaatc	3540
aggcaggaca	ggaggagggtg	cagggctacc	acattgaccc	agatggtagc	tcctctcacc	3600
attcagacat	ccataaggaa	tgccaaatgc	tgtattgaat	agttctcctg	tgtgactttc	3660
tagagaagcc	aggacacccc	tgagcctttc	ctgggaactc	ctaaggaagt	cacaggttca	3720
caccgtgggg	attttcagga	tagcatggag	accagagaat	cccggttcgg	ttgttctcac	3780
tcggtgagcc	ttgagaagga	agagactgac	cagaaacact	cactcagcac	tctggcagga	3840
gcaggagaag	atactttaag	atgaatcttt	gggtagatt	ttgatacacc	caataccata	3900
cacacaggag	cttggcattt	gcaaagtcta	ttcagtttcc	ttccacactc	tgaccacagg	3960
ttgtagcgga	gtgggtctgaa	cactgtaaca	ctgtacatgc	gattttccca	tgggcttcta	4020
aaatgtcacc	atctcctccc	ctgctgtgtc	ctactccatt	tactggttac	aagggtgatgt	4080
caacaagaga	agctatcaca	acaccagggc	tgtgcacacg	tgacacacac	tgtatgcaca	4140
agcacacaga	tgtatgtaca	gcacacacac	acacacacac	cccaaaagga	gagaaaagga	4200
agaaaacatt	tataaaaagc	gacagctacc	cccatattca	aaaatagttc	ttttccctgt	4260
agggaacagg	gtagctctcc	ataaggaaat	tatcatgagt	gtgttctccc	atcagtgcac	4320
ttctcccagg	gggtgctcact	gaagctgggtc	cacgtctata	aacagggtac	actggctgca	4380
gcaaaaagcc	attcgatcca	cacaaattga	tcttctatca	tcttggaatc	tgaattgcag	4440
ggaggagcag	catgtaagac	gaccgtttta	ttcaggcatt	ccgaaggcat	gagcgcagtg	4500
attctgtcac	caagcgtata	aaaggacctt	ggcattggga	aacctatgac	ggactgtttt	4560
tgctgtagaa	gtagggattt	tacagaagtc	tccttggtat	tgccctgcct	ggggcagttt	4620
tgacagggaa	cctgccagag	attttattggc	tggtcagctc	cttggtgaaat	agtatcatgt	4680
gagaaacagt	ttgtagaaaa	aaactataacc	tgggaagacc	tttgcaacat	tgttccttcc	4740
atgggccaag	actcagttag	gaggcataaa	tctgcccggg	ataaactagg	ccaggatata	4800
gccatgttta	gttaataaatt	tggttttaga	attcacacag	gcaggattgg	tttttttggt	4860
tctttggcaag	tggagcatat	ttaacataca	ggcatgggaa	tcctgcctct	tagcttttcc	4920
cacctctctg	tctcaccaag	ttttttctct	ccaaagggtt	ccaggaattt	ctcattaatg	4980
gctgatgcaa	acttagtgaa	taataatgaa	tataaacaat	gctcacctca	ccaaaattat	5040
attattttgca	gtcattttgtg	ataacacaaa	ttttatcgca	atggttatta	tttaatttgt	5100
ggccacacac	tgtggttatc	ttttgttggt	gttggttctg	agaaaatggt	cttggtatgt	5160
taagtgccaa	taccagtgtg	aagtattgat	cccgggcagc	aaaatacagc	ctaaggtttg	5220
taaacatcaa	ttctatctca	gttcacatga	gggcttgaga	agctgcgggg	cagtgtaaag	5280
taaagtatgc	tgggctgggtg	gtggctcagcc	tccccctggc	agaagagag	caattgaatc	5340
ctgtccccag	ctccctccac	gcctgaagag	tgaccagtgc	tggcccagacg	gatcgcgtgag	5400
atatttctccc	ataatggcaa	aaaaataggc	agtttgatgt	gacctgttta	gtgtggctct	5460
cctcttttga	gcatgtgtta	gcatttttat	tttatactca	tccagtgaac	tctgctcttc	5520
caagtgtggt	catgtatgtg	ctagatatat	tagcacagcc	tgccctctgc	tgcaacaacg	5580
cttagagacc	cggcctttca	atgagcttag	cttggtctct	gtttctgctc	tcttaggtct	5640
aaactatggt	gtcagtttta	atagaacaaa	agtatgcac	ttgccttggc	ttgagccttt	5700
tcgttttcaa	tgtgacttcc	tcccccttct	ctcctgtgct	caccttacct	ttccagagtg	5760
taagggacaa	cttttaagga	ggcgtgtccc	tggtaggggc	atccctgttc	accagggtgcc	5820
tgtcatcacc	ccacttgact	gacatctacc	ctggtgacta	tgggttcctc	ttgtttgtag	5880
ggaacgggtg	ctccagggtg	aggcatcaat	ctgttgggtt	ctgggtcccg	gctgcctttg	5940
gttttgaaag	tctcttctct	gtatattcct	accctgcatt	tgctttgtgt	ggtgctgatg	6000
ctgtggcagt	aggatcttgg	atgactctcc	atcagtcaca	gactccccct	gttgcaaaag	6060
gtcaggctga	ctcgacagtc	accgtaaaa	ctgagtcagt	cacacacagg	ctgtcagcca	6120
cggcttccac	ttgcattggt	attctatttt	gcacgtgag	tttctgttgc	tggctggctg	6180
actggcata	tctatgctaa	gttgaaatca	ggagtgtgcc	cagcagagcc	catcattctc	6240
actgtctttg	aaacaaagct	gtacggtttg	atcgatgaac	gtattttaag	catttcatgc	6300
aatgacaaa	tgctcagtag	tggaaaggcag	gctgtgacca	gtctgcctgc	tccttactat	6360

2817-102seq1ist.txt

aattgtgagg	atttggttact	ggaacagtag	atggaggcct	gaccttgtgg	gggcacaggg	6420
tggaacctta	gctgaatata	gtgtgtgtct	caagagggaag	tcaggggtact	agctcagtag	6480
tcaatctcca	ggtactatat	atacatttgc	ccgttttatc	tctaattgtga	aataaatccc	6540
caaacacttg	tttatcgtgt	agcgtaccta	aaagactatt	ctattatggg	tgtccccact	6600
ttcttggttt	ggtcaccccg	atcccccggt	cttctgctgt	atctagaaca	gtgactataa	6660
atgatgtatg	ggaatagtag	ttccatatga	tctgttgtct	ggagtatatg	ctacatgttc	6720
atttactgta	caaaaaccca	gtgcagctga	tgatgcaaag	cagtcctctt	ctgtgtacag	6780
tgccccacct	atttaaaaaat	cacgtacaan	cccagaacac	tgtgaaacac	ttaacataag	6840
aaacaaacgc	agcgtctgga	ttctttccaa	ggagagcagc	tttctccaca	ggaacacagt	6900
aacaaaagag	gtccgccgcc	atccacaccc	agccaagaca	cctcagaggc	catagggaca	6960
acctccttgc	tggccaacac	ctgctggagc	agggcacagg	tcccagcaac	tgatcctcag	7020
tggatgggtc	cgcagtcaaa	gccttaatgg	gctctctttt	gaaggggaaa	gaaanntttc	7080
aagcttatga	tatccaacat	tattatagtt	gatgagttag	taaattccga	aaaaaaaaaga	7140
tgattttata	tgtatgacat	aaaaaaaaatc	tttgtaaagt	gcgcaagtgc	aataatttaa	7200
agagggtctta	tctttgcatt	tataaattat	aaatattgta	catgtgtgta	atTTTTcatg	7260
tattcatttg	cagtcittgt	atttaaaaaa	actttactgt	tatgtttgta	taatagaaca	7320
ttaatcattt	attataactc	agacaagggt	taaataaatt	cataattcaa	acagccagta	7380
tatatgcata	tatgggtgtt	acattgcaaa	aatctctatc	tttgttctat	tcacatgctt	7440
aaagaagtaa	gaaatctttt	gtggatatgt	aattatacat	ataaagtata	tatatatgta	7500
tgatacatga	aatatattta	gaaatgttca	taattttaat	ggatattcct	tggtgtgaat	7560
aattgaatac	aacattttta	aaatgaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaa	7618